

SEVERE LOCAL STORMS FOR JULY 1946

[The table herewith contains such data as has been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Laramie, Wyo.	July 1946 1	2 p. m.		0		Tornado	Storm observed east-southeast of Laramie airport. Funnel failed to reach the ground; no damage reported.
Bennett, Colo., vicinity of	1	3 p. m.	100	0	\$40,000	Tornadoes	Garage destroyed; another twisted off its foundation; roofs and houses damaged; steel grain bins lifted and twisted into worthless masses. Some farms struck, damaging combines, other machinery, and buildings.
Dundy County, Nebr.	2	6-6:30 p. m., M. S. T.	16		20,000	Heavy hail and wind.	Path of damaging hail about 4 miles long in county. Storm passed into Kansas as a severe hailstorm. Loss principally in wheat.
Musselshell County, Mont.	2	8 p. m.	1 1/2		12,000	Hail	Loss in wheat and oats; path 5 miles long.
Stratton, Trenton, and Culbertson, Nebr., and vicinities.	2	8:30 p. m., M. S. T.	1 4/5		500,000	do	Path of storm in Hitchcock County about 24 miles long. This county adjoins Dundy County where time of storm was apparently 2 hours earlier. Corn stripped, but surviving. Principal loss in wheat.
Wheeler to St. Francis, Kans., vicinities of.	2	9-10 p. m.	5-10		1,250,000	Heavy hail	Wheat, caught just before harvest, and other crops in the storm path practically wiped out. Some livestock killed. Additional damage in Dundy County, Nebr., from what appeared to be an accompaniment of this storm, estimated at \$20,000. Path 30 miles long.
Golden Valley County, Mont.	3	4:30 p. m.	1 10		15,000	Hail	Loss in wheat and oats; windows cracked or broken; path 25 miles long.
Musselshell County, Mont.	3	5 p. m.	1 10		15,000	do	Loss in wheat and corn; path 30 miles long.
Myers, Mont., vicinity of	3	6:30-7 p. m.	1 1			Hail and wind	Total loss, from hail, in grain and beets on 7 farms; path 10 miles long.
Carpenter, Wyo.	4	4 p. m.		0		Tornado	No damage reported.
Cheyenne, Wyo.	4	4:15 p. m.		0		do	Funnel did not reach ground so no damage resulted. Apparently the same storm that was observed at Carpenter.
Langley, S. C.	4	P. m.	1 7		2,000,000	Electrical	Textile mill and stocks destroyed by fire, with loss probably more than estimate given.
Harahan, Metairie, Ridge, and New Orleans, La.	5	8:20-8:30 a. m.	100	0	25,000	Tornado	Miscellaneous property damage; little crop loss.
Wilmington to Manteo, N. C.	5-6	9 p. m. of 5th-p. m. of 6th.				Tropical disturbance.	High wind velocity of 42 miles per hour recorded at Hatteras, N. C., with gusts probably reaching 50-60 miles per hour in the area of Wrightsville and Carolina beaches. At Manteo, N. C., rainfall measured 7.84 inches, fell in less than 24 hours. This was the greatest 24-hour rainfall ever to have been recorded since the beginning of records at Manteo in 1905.
Hilliard, Fla.	6	P. m.		0		Small tornado	Occurred in a sparsely settled area and no damage of consequence reported.
Dawson County, Mont., southwestern portion.	7	5 p. m.			5,000	Hail	Loss in wheat and barley over path a mile long and less than a mile wide.
Fulton, Mont., and vicinity	7	5:50-6:35 p. m.	1 2		3,000	Hail, rain, and wind	1.05 inch of rainfall; wind 45 miles per hour; hail size of walnuts, 4 inches deep on highway; roofs damaged. Loss in wheat and beets; path 20 miles long.
Custer, Carter, and adjacent counties, Mont.	7		1 6		2,000	Hail	Loss in alfalfa and small grain.
Toole County, Mont.	7		1 2		25,000	do	Loss in wheat and mustard; path 5 miles long.
Del Norte, Monte Vista, Blanca, and Fort Garland, Colo.	8	2:45-5:30 p. m.	1 5		560,000	do	Loss in green peas, 50 percent, and potatoes, 25 percent. Much loss in lettuce, grains, and alfalfa in San Luis Valley. Buildings and roofs damaged, some extensively; neon signs and windows broken.
Shawnee and Osage Counties, Kans.	8	7 p. m.	1 2		15,000	Heavy hail and wind.	Loss chiefly in wheat; path 30 miles long.
Custer County, Mont.	8	P. m.	1 8		7,000	Hail	Loss in small grains; range damaged.
Lyndon, Kans.	8		880		1,000	Heavy hail.	Path 2 miles long; no details.
Montevideo, Minn.	9	5-9:30 a. m.	1 5		31,400	Thundersquall and hail.	Several small buildings at airport blown down; much loss in growing crops from hail; some loss in livestock and poultry.
Scotland Neck, N. C.	9	12:15-12:55 p. m.				Heavy rain.	2.80 inches of rain fell in about 40 minutes. Number of business houses flooded, including a hosiery mill, where considerable machinery and materials were damaged. Furniture factory and church flooded. Much loss in crops, particularly corn and tobacco. Estimate of damage not given.
Custer County, Mont., northern portion.	9	P. m.	1 5		8,000	Hail	Loss in beets, alfalfa, and small grain; path 16 miles long.
Wilkes-Barre, Pa.	9	P. m.			60,000	Thunderstorm	Roller skating rink destroyed by fire.
Milwaukee, Wis.	9	P. m.			1,200	Electrical	Upper portion of home burned.
Scobey, Mont., vicinity of	9-10	12:50 p. m. on 9th-1 a. m. on 10th.	1 25		53,000	Rain, hail, high winds, and flood.	Most damage from flooding. Bridges washed out; basements flooded; crop loss, \$50,000; path of hail 80 miles long.
Chouteau, Mont., western portion.	11	5 p. m.	1 1		1,000	Hail	Loss in wheat and barley; path 3 miles long.
Winnabow, S. C.	11	P. m.			6,000	Thunderstorm	House burned, some trees blown down, and telephone service interrupted.
Bunker Hill, Va.	11	P. m.			800	Electrical	5 cows killed in open field.
Saratoga, N. C., and vicinity.	12	6:30 p. m.		4		do	Lightning struck a tree around which some young persons were standing, killing 4, injuring 4, and knocking down several. All electrical line transformers serving Wilson area out of commission.
Edgar, Mont., vicinity of	13	3:30 p. m.	15		1,500	Tornadic winds	Farm building damaged.
Kalispell, Mont.	13	4 p. m.	880-1,320		40,000	Hail	From 30 percent to total destruction to 6,000 acres of grain; loss in peas and gardens; path 6-7 miles long.
Birmingham, Ala.	13	6-8 p. m.				Thunderstorm and wind.	Winds up to 46 miles per hour recorded. Large and small trees blown down; lightning struck 2 streetcars; woman injured when a window in her house was shattered. Telephone and electric lines down; service discontinued 4 hours. Stadium wall undermined by heavy rains and partially blown down. Damage in thousands of dollars, not estimated.
Ravalli County, Mont.	13		2,200		8,000	Hail	Much loss in peas and beets; path 3 1/2 miles long.
East Helena, Mont., vicinity of.	14	5:15-5:16 p. m.	50	0	2,000	Small tornado	Storm accompanied by blinding dust, with no funnel cloud visible; damage to 1 farmstead only.
Altavista, Va.	14	P. m.			2,200	Electrical	14 cows killed by lightning.
Bedford, Va., vicinity of	14	P. m.			1,000	do	8 cows killed by lightning.
Toole County, Mont., southern portion.	14		1 5		11,500	Hail	Loss in wheat; path 12 miles long.
Chouteau County, Mont., southern portion.	15	4 p. m.	1 2		3,000	do	Loss in wheat and barley; path 5 miles long.
Stanford, Mont., vicinity of.	15	4:30 p. m.	1 5		7,500	do	Loss in grain and garden; effect spotty; path 10 miles long.
Fergus and Petroleum counties, Mont.	15	5 p. m.	1 2		30,000	Heavy hail	Much crop loss; damage to roofs and windows.
Daniels County, Mont.	15	6 p. m.	1 8		7,000	Hail	Loss in wheat and barley.
Fergus County, Mont., western portion.	15	6 p. m.	1 5		100,000	Heavy hail	Loss in grain; gardens damaged; some windows and shingles broken; path 12 miles long.
Custer County, Mont., northern portion.	15	P. m.	1 4		9,000	Hail	Loss in beets, grain, and alfalfa; rangeland damaged; path 24 miles long.

See footnotes at end of table.

SEVERE LOCAL STORMS FOR JULY 1946—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Townsend, Mont., vicinity of.	July 15	P. m.			13,000	Hail	Much loss in grains and beets, small loss in pea crop; considerable building and property damage.
Stanford County, Mont., vicinity of	16	3:15 p. m.	15		75,000	do	Loss in grain and gardens spotty over area 10 miles long.
Frazer to Circle, Mont., and vicinities.	16	8:30-11 p. m.	120-30		1,400,000	Heavy hail and wind.	Almost total loss in crops; path 65 miles long.
Culbertson, Mont., and vicinity.	16-17	10:30 p. m.-2:30 a. m.	12½		151,000	Heavy hail and rain, electrical.	Principal loss in wheat; small property damage; basements flooded; some small bridges washed out. 2.80 inches of rain recorded; path 45 miles long.
Williams and Mc.Kenzie Counties, N. Dak.	16-17	11:12 p. m. of 16th-4:35 a. m. of 17th.			50,000	High winds, rain, and hail.	2.12 inches of rain recorded; 1.78 inches fell in 2 hours, the heaviest 2-hour rainfall of record. \$25,000 loss in crops; \$25,000 damage to airplanes and buildings. Hailstones measured 7½ inches in circumference. Some small birds killed.
Custer County, Mont., southern portion.	17	Midnight	16		8,000	Hail	Loss in crops; damage to range; path 18 miles long.
Big Horn, Mont., northern portion.	17		12		150,000	do	Loss in grain, sugarbeets, and alfalfa; path 35 to 40 miles long.
Colstrip, Mont., vicinity of.	17-18	9:15 p. m.-after midnight.	11		8,000	Hail and wind	Loss in small grain and gardens; path 30 miles long.
Denver, Colo.	18	3:50 p. m.			3,500	Electrical.	Lightning made 20 reported strikes, injuring a woman and setting fire to several homes.
Columbia City, Ind., vicinity of.	18	4:30 p. m.	200		700	Wind	Damage on 1 farm; path southwest to northeast, 880 miles long.
Gainesville, Fla.	19	4-4:30 p. m.			21,500	Tornadic wind	Damage to main hangar, shops, and cottage at Stengel Air College, and some damage in city proper.
Montgomery County, Ala., northern portion.	19	P. m.			4,000	Wind and hail	Some trees and wires down.
New York State, northern portion.	19				100,000	Electrical.	Communication and power lines disrupted; fires in many buildings in northern counties. Property damage in Jefferson County alone, \$100,000.
Todd County, Minn.	20	3 p. m.	14		120,000	Thundersqualls and hail.	Power and communication lines disrupted; buildings damaged; trees uprooted; corn and grain lodged; 2 persons injured. Loss from thundersqualls, \$10,000; from hail, \$110,000.
Camp Hill, Pa.	20	P. m.			5,100	Thunderstorm	2 homes damaged by falling trees.
Davidsburg, Pa.	20	do.			8,000	do	Barn burned and 300 chickens destroyed.
Middleburg, Pa.	20	do.			8,500	do	Barn and contents struck by lightning and burned.
Barnstable County, Mass.	20-21	12 p. m.-4 a. m., E. S. T.			5,000	do	Utility wires damaged; in South Brewster, Mass., barn burned.
Hanover, Pa., vicinity of	21	A. m.			1,000	do	Barn damaged when struck by lightning.
Monsey, N. Y.	21	5:28-5:30 p. m.	500		102,000	Thunderstorm and hail.	Orchards damaged by hail; loss in apples and peaches, \$50,000 loss in vegetables, \$52,000; path 3½ miles long.
Admire, Pa.	21	P. m.			6,000	Thunderstorm	Barn burned.
Delta, Pa.	21	do.			7,500	do	House burned when struck by lightning.
Gallia County, Ohio.	21					Heavy rain.	Bridges washed out; loss in crops.
Riverside County, Calif.	21-23	6:30-8:30 p. m. of 21st to 7:30-10 p. m. P. S. T. of 23d.				Thunderstorm, heavy rains, and high wind.	Some damage to alfalfa seed cut and unthreshed; telephone and electric lines blown down. Few miles northwest of Blythe couple of houses unroofed. At Bresson Airport north of Blythe, 8 airplanes and hangar destroyed. Rail transportation delayed by washouts.
Houma, La.	22	2 p. m.	100	0	2,500	Tornado	Chief damage to buildings.
Crowley, La.	22	3:15 p. m.	100	0		do	Small damage reported.
Concord, N. H., vicinity of.	23			1	60,000	Tornadic wind.	Damage confined to relatively small area 586 yards northwest of Concord, N. H., Weather Bureau Office. Principal damage to National Guard Arsenal; 150-foot section of steel and brick building wiped out, destroying machinery and damaging army vehicles; estimated loss, \$50,000. In addition 8 dwellings damaged and several small buildings completely destroyed. Boy killed by falling timbers when a barn collapsed.
Northfield, Minn., and vicinity.	23	4:30 a. m.			21,500	Thunderstorm and hail.	Considerable loss in growing crops and small grain in shocks; damage to real property.
Wayne County, N. Y., central and southeastern portions.	23	3-3:30 p. m.	11½-3		750,000	Hail	Loss in all crops; vegetables on extensive muckland and orchard fruits especially hard hit.
Haynesville, La.	24	3-4 p. m.			25,000	Hail, wind, and electrical.	Loss in growing crops, \$10,000; damage to oil tank and contents, resulting from fire caused by lightning.
Mount Pleasant, Utah.	24	4:15 p. m., M. S. T.			100,000	Heavy showers and flash flood	Main street filled with mud, debris, and boulders, some weighing several tons. Business houses flooded to depth of 4 feet, causing much damage to streets and buildings as well as heavy loss of merchandise. About 75 homes damaged in varying degrees. 200 acres of farm land inundated, devastating crops and gardens and causing small loss of livestock and poultry.
Franklin and Licking Counties, Ohio.	24	9 p. m.				Wind, electrical.	Many trees blown down; barn and house destroyed by lightning near Columbus; 3 barns, about 12 miles northwest of Newark, destroyed by fire.
Lynchburg, Va.	25	4 p. m.				Thunderstorm and hail.	Office building struck by lightning; moderate damage to power lines; some damage from hail.
Hugo, Colo.	25	5:15 p. m.			50,000	Hail and heavy rain	Severe damage to roofs by hail; windows broken; railroad roadbed washed out; basements flooded, ruining stored goods.
Gaffney, S. C., vicinity of.	25	9 p. m.	13		10,000	Hail and wind	35 percent loss, mostly in cotton and corn on about 12 farms; length of path, 3 miles.
Starkville and State College, Miss.	26	4:05 p. m.	1,760		500	Wind and hail	Small crop loss; damage to buildings.
Morland, Kans.	28	P. m.	440		1,500	Wind	Many trees blown down or lost large limbs; wires down; small buildings damaged.
Ashland, Wis.	28	A. m.			100,000	Electrical.	Furniture and lumber plant with contents burned.
Cozad, Nebr.	28	4-6 p. m.	13		50,000	Hail and wind	Loss in corn and alfalfa; path 4 miles long.
Verdigre, Creighton, and Plainview, Nebr., vicinities of.	28	5-7:30 p. m., C. S. T.	12		31,800	Heavy hail and wind	Most damage southwest of Creighton, with principal loss in corn. Wind and rain caused loss in shocked oats and poultry of \$1,500, included in estimate.
Boone and Nance Counties, Nebr.	28	5:30-6:30 p. m., C. S. T.	12-5		125,000	Hail and wind	Principal loss in growing corn; smaller loss in shocked wheat. person slightly injured by flying glass. Storm moved south. Considerable damage to buildings in Cedar Rapids. Length of path, 20 miles. Loss in livestock and poultry, \$2,150, included in estimate.
Lyon County, Minn., western portion.	28	6:05 p. m.	12			Thunderstorm and hail.	Much loss to growing crops; path 2 miles long.
Frazer, Mont., vicinity of.	28	9:30 p. m.	14		750	Hail and wind	Small loss in grain; path 8 miles long.
Beaver City, Nebr.	28		12		4,500	Electrical and hail	Granary damaged by fire; path 12 miles long.
Musselshell County, Mont., central portion.	29	7 p. m.	13		21,000	Hail and wind	Loss principally to wheat over a 10-mile path.
Haynesville, La.	29				10,000	Electrical.	Damage confined to oil storage tank and contents, resulting from fire.

See footnotes at end of table.

SEVERE LOCAL STORMS FOR 1946—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Cedarville to Fort Bidwell, Calif.	July 1946 30	1-3 p. m.				High wind and rain.	Storm started with drizzle and light wind. Suddenly the wind hit hard from the northwest with a twisting effect, breaking limbs from trees and strewn them in all directions, twisting and threshing gardens. Most loss to gardens, fruit trees, heavy vines, shade trees, grain, and hay. Everything received a severe whipping for 1½ hours. No damage from rain which lasted 15 to 20 minutes.
Musselshell County, Mont.	30	3 p. m.	1 1½	4	3,000	Hail	Loss in wheat; path 4 miles long.
Bitterroot Valley from Hamilton to Stevensville, Mont.	30	3-6 p. m.	2,640		250,000	Heavy hail and high wind.	Much loss in beet and potato crops. At Missoula airport peak gusts, 40-65 miles per hour for 5-minute periods, established a new July record maximum wind velocity.
Lake County, Ind.	30	3:15 p. m.	1,800			Hail and wind	Considerable loss in crops.
St. Petersburg, Fla.	30	7 p. m.			1,500	Tornadic wind	Frame house unroofed; garage demolished.
Carroll County, Ind.	30					Hail	Much loss in corn and beans.
Kosciusko County, Ind.	30					do	Heavy crop loss; not estimated.
Burleigh County, N. Dak.	31	8-8:30 p. m.	13		30,000	High wind	Shocked grain scattered; some loss in standing grain. Sheds, granaries, barns, and some windmills damaged or demolished.
Henderson, Colo.	31	P. m.		2	2,010	Electrical	About 25 percent of loss in crops. Radio tower demolished. House burned; 2 occupants died from burns.

¹ Miles instead of yards.